

Date: Thu, 11 Nov 93 04:30:36 PST
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V93 #100
To: Ham-Homebrew

Ham-Homebrew Digest Thu, 11 Nov 93 Volume 93 : Issue 100

Today's Topics:

Ferrite Transformers
LM2941 Sources
Looking for dials ...
Opto-isolator keying
Phase-lock to WWV ?
Rewinding transformers
What do i need to get started?

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>

Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>

Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 09 Nov 1993 16:20:50 GMT
From: yuma!galen@purdue.edu
Subject: Ferrite Transformers
To: ham-homebrew@ucsd.edu

In article <CG7816.DnA@fc.hp.com> perry@fc.hp.com (Perry Scott) writes:
>Has anyone else tried prying apart one of those ferrite transformers
>found in switching power supplies? Seems they are one amorphous mass
>of ferrite, copper, transformer tape, and varnish. Ferrite is an
>especially brittle substance.
>I've tried pulling a few apart and have little ferrite shards all over
>the shack.
>Perry Scott
>AA0ET

The ferrites I've been able to get out of switching supplies didn't work too

well at RF (I was on 6m, they may be OK at MF or HF). They were very lossy.

I soaked the xfmr in a solvent to dissolve the tape adhesive and varnish. Then (wearing rubber gloves) I peeled off what I could and cut the rest with some big wire cutters, finally ending up with a core that was almost useless at the frequencies I was on. I've since broken down and bought an experimenter's kit from Amidon.

I, too, have ferrite shards in the corners of the shack. Wear goggles!
Galen, KF0YJ

Date: 8 Nov 1993 22:29:57 GMT
From: olivea!charnel!yeshua.marcam.com!news.kei.com!sol.ctr.columbia.edu!
howland.reston.ans.net!gatech!swrinde!cs.utexas.edu!cs.utexas.edu!
gerald@cc.utexas.edu!phmac118.ph.utexas.edu!bsn@@..
Subject: LM2941 Sources
To: ham-homebrew@ucsd.edu

Does anyone know of a source of LM2941T voltage regulators? This is a variable output voltage device with with a series PNP pass transistor.

Barry Newberger, W5KH
Inst. for Fusion Studies, UT-Austin
Austin, TX 78712-1060
tel (512) 471-3726
fax (512) 471-6715

Date: Wed, 10 Nov 1993 00:07:26 GMT
From: munnari.oz.au!bruce.cs.monash.edu.au!trlluna!titan!pcies4.trl.OZ.AU!
drew@uunet.uu.net
Subject: Looking for dials ...
To: ham-homebrew@ucsd.edu

In article <CG0nx0.sK@abacus.demon.co.uk> dmb@abacus.demon.co.uk (David Byrne) writes:

>From: dmb@abacus.demon.co.uk (David Byrne)
>Subject: Looking for dials ...
>Date: Fri, 5 Nov 1993 11:29:23 +0000
>

>Any homebrewers (esp. in the UK) know of a source for dials ? I'm building
>a SW superhet, and looking for a decent dial/reduction drive to use for the
>vfo, ideally something with about 36:1 reduction. I remember seeing a
>reduction drive with selectable 6:1 and 36:1 ratios years ago, but can't
>seem to get anything better than 10:1 these days. I could use a second

>variable cap. in parallel with the primary cap. for electronic bandspread
>I suppose, but I'd prefer to stay mechanical because I think calibrating
>the freq. display dial will be easier.
>
>Any help appreciated,
>
>-David.
>--
>David Byrne, Abacus Software, London, UK Tel: +44 71 930 4884
>Email: dmb@abacus.demon.co.uk Fax: +44 71 839 7445
>Here's a koan: If you have ice-cream I will give you some. If you have none,
> I will take it away from you. (it's an ice-cream koan).

Hello David. Similar problem here in Australia (any manufacturers reading this- great opportunity for a highly desirable item here- believe Ten Tec dials are rather good- how about it?).

Second-hand at hamfests is about all you can hope for in the way of a really good unit- perhaps a nice Eddystone or Millen. Ocean State Electronics in Rhode Island USA (can supply address if you wish) still supply a good copy of the original Jackson Bros. 6:1 planetary drive. You can tandem two of them to get your 36:1 reduction with pretty good smoothness and acceptable backlash, provided you insert a good flexible coupler between drive and capacitor shaft.

73 Drew, VK3XU.

Date: 10 Nov 93 13:16:27 GMT
From: news-mail-gateway@ucsd.edu
Subject: Opto-isolator keying
To: ham-homebrew@ucsd.edu

Hi,

My friend is building a keyer circuit using the Curtis Keyer chip. He is trying to reduce the size and power consumption so he would like to use an opto isolator instead of a relay or transistor type circuit for the output stage. His rig is a Kenwood TS-140S. He is interested in circuits which use opto-isolators to key transmitters and use little current. Any suggestions or references?

Thanks and 73

Tom, kv2x

--

Thomas J. Jennings | Tel: (716) 273 7071
Development Engineer | Fax: (716) 273 7262

ABB Process Automation |
Post Office Box 22685 |
Rochester, New York 14692-2685 |

Internet: jennings@jennings.rochny.uspra.abb.com

Date: 10 Nov 93 17:56:08 GMT
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!moe.ksu.ksu.edu!matt.ksu.ksu.edu!
news@network.ucsd.edu
Subject: Phase-lock to WWV ?
To: ham-homebrew@ucsd.edu

Ed Ellers <EDELERS@delphi.com> writes:

>Interestingly enough, since WWV's master clock site in Boulder doesn't have a
>clear line of sight to the transmitters in Fort Collins, they have an
>arrangement
>with one of the Denver TV stations; they microwave a clock signal over to that
>station (I've forgotten which one) and have gear there to phase-lock the color
>subcarrier to it. At the WWV Fort Collins site they then take the signal off
>air and phase-lock all their frequency standards to the burst; audio gets
>there over a leased phone line from Boulder.

When I went to NIST this summer and took their self-guided tour, I also
picked up some time-reference documentation. It claims they use a
microwave link to the transmitters in Fort Collins. It also says the
WWV/WWVB clocks are compensated for the path delay.

I would really doubt a government agency would use a commercial TV
station for a time reference.

-Steve Schallehn KB0AGD
Kansas State University

Date: Tue, 09 Nov 1993 03:57:39 GMT
From: nwnexus!ole!ssc!markz@uunet.uu.net

Subject: Rewinding transformers
To: ham-homebrew@ucsd.edu

Michael Moroney (moroney@world.std.com) wrote:
: The Radio Amateur's Handbook (at least older versions) give tips on
: rewinding power transformers.

I've never bothered rewinding one, but another good book is "Practical Transformer Design Handbook" by Lowdon. The old edition was from Sams, but I saw in an ad that the second edition is available from TAB Professional Books.

Mark Zenier markz@ssc.wa.com markz@ssc.com

Date: 9 Nov 93 00:12:27 GMT
From: organpipe.uug.arizona.edu!news@uunet.uu.net
Subject: What do i need to get started?
To: ham-homebrew@ucsd.edu

I need to know what sort of equipment i need in order to broadcast a signal that the FCC will ignore. My campus radio station only broadcasts over cable, and we are sick of it, so we are going to try going pirate, but we need some equipment first. I've heard that there is a little transmitter that could be used to send a short signal, and you can place more antennae around in order to get a bigger area within range-I NEED SOME ADVISE!! what do i need to get started?
todd

Date: 9 Nov 1993 08:01:33 -0700
From: orca.es.com!cnn.sim.es.com!moons.sim.es.com!not-for-mail@uunet.uu.net
To: ham-homebrew@ucsd.edu

References <2bivng\$ieo@reznor.larc.nasa.gov>, <CG4sLG.Fny@fms.com>, <CG4y3I.3rM@csn.org>-mail
Reply-To : datwyler@moons.sim.es.com
Subject : Re: My home brew..

Mutant Ninja 6m. Sounds fun. Pass the info please.

TNX 73

--
Douglas L. Datwyler, WR70

Evans & Sutherland Computer Corp.
preferred e-mail: datwyler@moons.sim.es.com

End of Ham-Homebrew Digest V93 #100
